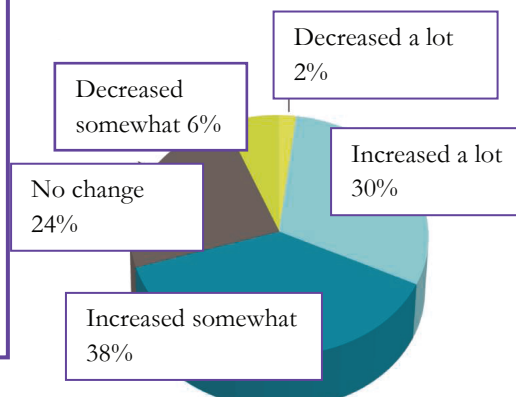
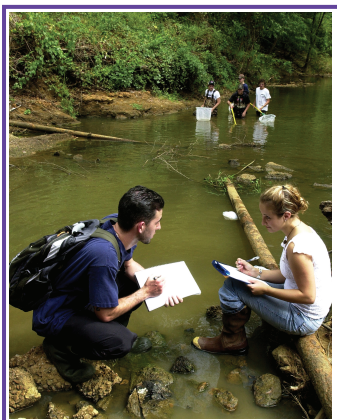


**Office of Research and
Sponsored Programs**

Stephen F. Austin State University has adopted “High-Impact Practices to Enhance Student Learning” as our Quality Enhancement Plan (QEP). High-impact practices incorporated into course content engages students in learning, which improves higher-order thinking skills and overall student success. Undergraduate research, which often includes field-based learning, is a high-impact practice adopted by SFA.

ORSP is committed to supporting and promoting opportunities for undergraduate research at SFA. Visit our website for a list of opportunities, from programs to scholarship to publication venues.



Student interest in STEM careers after participating in undergraduate research opportunities (sciencema9.org).

Last year, research grants awarded to SFA faculty and staff included more than \$210,000 for students. These funds provided opportunities for students to conduct research, perform field work, serve as technicians, and travel to meetings to present papers, all while earning their undergraduate degrees at SFA in a variety of majors.

To learn more about how faculty can be mentors to students, and how students can find faculty members willing to support their academic interests, visit SFA's Undergraduate Research page today.

<http://www2.sfasu.edu/orsp/undergradresearch.html>

2013 Undergraduate Research Conference: Celebrating Academic Diversity



STEPHEN F. AUSTIN STATE UNIVERSITY
IS AN INSTITUTIONAL MEMBER OF THE
COUNCIL ON UNDERGRADUATE RESEARCH
Learning Through Research

Stephen F. Austin State University
Baker Pattillo Student Center
Regent's Suite A and the Twilight Ballroom

April 9, 2013
4-8 p.m.

2013 SFA Top Scholars

Nelson Rusche College of Business

Candace Hartsell, Calvin Smith, and CJ Cochrane

Stephen F. Austin Transit System

Department of Management, Marketing, and International Business

– Dr. Joe Ballenger

Arthur Temple College of Forestry and Agriculture

Destiny Russell, Joseph Mars, and Jarod Davidson

Volatile Organic Compounds Emitted from Indoor Plants

Division of Environmental Science – Dr. Sheryll B. Jerez

College of Liberal and Applied Arts

Valerie Douglas

Weight-Based Stereotyping as a Moderator of the Relation between Weight

Stigmatization Experiences and Eating Disorder-Related Pathology

Department of Psychology – Dr. Sarah Savoy

James I. Perkins College of Education

Amy Ferguson, La Keisha Grace, Sarah Rowland,

Geneva Castillo, and Julia Scott

The Effect of Amber Nightlighting on Resident Satisfaction and Safety:

A Pilot Study

School of Human Sciences – Dr. Mitzi Perritt

College of Fine Arts

Amelia Fultz

The Madwoman of Chaillot

School of Theatre – Dr. Richard Jones

College of Sciences and Mathematics

Ervin J. Goodrum

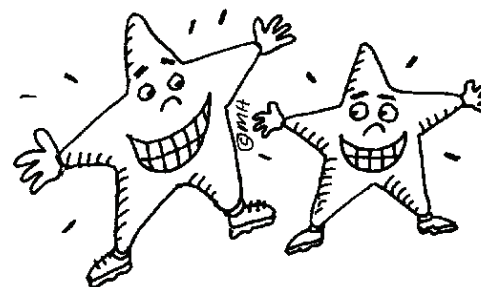
Can You Feel the Heat!

Department of Chemistry and Biochemistry – Dr. Alyx Frantzen

University Finalists—Poster Presentation

College of Sciences and Mathematics (con't)

- **Jorge Ojeda** *A Determination of the Aspartame Content in Select Diet Beverages*
Department of Chemistry and Biochemistry – Dr. Alyx Frantzen
- **Jorge Ojeda** *Vibrational Spectral Studies and Mutagenicity Predictions of Mononitrated Fluoranthenes* Department of Chemistry and Biochemistry – Dr. Kefa K. Onchoke
- **Joshua Seydler** *Hill Country Field Trip* Department of Geology – Dr. Chris Barker
- **Reid S. Tarpley** *Large-scale Expression and Purification of Active Pseudohysin in Escherichia coli* Department of Chemistry and Biochemistry – Dr. Odutayo O. Odunuga



Undergraduate Research at SFA

Each year SFA holds the Undergraduate Research Conference to celebrate the academic achievements and scholarly excellence of its undergraduate students. This year's conference showcases student projects completed across SFA's six colleges over the previous academic year.

Any paper or project composed or performed during the previous calendar year (in this case, 2012) as part of an undergraduate course requirement or as a faculty-supervised independent project was eligible for the competition.

For more information about this program and works of past winners, please visit our website:

<http://www.sfasu.edu/honors/urc/index.asp>

Special thanks to the Office of the Provost & Vice President of Academic Affairs, the School of Honors, and the Office of Research and Sponsored Programs.

URC Executive Committee: Dr. Leslie G. Cecil, Dr. Eric Jones, and Dr. Michael Tkacik

University Finalists—Poster Presentation

College of Liberal and Applied Arts

- **Evadney Cooper** *Women and Railroads* Department of History – Dr. Paul J.P. Sandul
- **Zoe Delafosse** *Zabba's Search for Identity in War* Social and Cultural Analysis/Division of Multidisciplinary Studies – Dr. Karol Chandler-Ezell
- **Kayla Fox** *Loretta Lynn: Voicing Feminism* Department of History – Dr. Court Carney
- **Melanie Johnson** *Anthropology Research Project: Through the Portal into the World of Exciting Research* Department of Social and Cultural Analysis and the Steen Library – Dr. Leslie G. Cecil and Robin Williams
- **Wilson McFarland** *Globalizing "Jesus": Critical Review of Processes of Media Globalization in the Production and Global Promotion of the Film "Jesus"* Department of Languages, Cultures, and Communications – Dr. Sudeshna Roy
- **Christopher Pace** *Attitude and Economics: The Effect of Happiness on Economic Development* Department of Government – Dr. Lee W. Payne
- **Andrey Stephens** *Death and Dying in Young Adults: Reflections from a Surviving Parent* School of Social Work – Dr. Kim Rich-Rice
- **Renee Williams** *An Allegorical Reading of Cormac McCarthy's Outer Dark* Department of English – Dr. Ken Untiedt
- **Claudia Rubio** *Animal Whisperer Turned Knight in Shining Armor: A Fairytale Synthesis* Department of English – Kay Porter
(Best Freshman Submission)

College of Sciences and Mathematics

- **Johnne' Beaty, Bethany Sobray, and Rachael Jasmine Greer** *Comparing Aggression Levels in Jack Dempsey Cichlids Based on Variation of Habitat Structure* Department of Biology – Dr. Brent Bur
- **Zihao Jian** *Turret Configurations and Projectile Paths* Department of Mathematics and Statistics – Dr. Jeremy Becnel
- **Shobhit Keswani, Saad Chaudhry, and Kenekchukwu C. Ekwemalor** *Toxicity of Heterologously-expressed Genes and Their Protein Products of Escherichia coli Growth Cultures* Department of Chemistry and Biochemistry – Dr. Odutayo O. Odunuga
- **Mireya Martinez** *Effects of Size, Buffer Composition, Number and Position of Tag on Purity and Yield of Purification of Histidine-tagged Proteins by Immobilized Metal Affinity Chromatography* Department of Chemistry and Biochemistry – Dr. Odutayo O. Odunuga

Schedule of Events

Regent's Suite A

- 4:00-4:10** Opening announcements, Dr. Eric Jones
4:10-4:40 Presentation of awards to Top Scholars and Finalists, Provost Dr. Richard Berry

Top Scholar Presentations

- 4:40-4:50** **Candace Hartsell, Calvin Smith, and CJ Cochrane** *Stephen F. Austin Transit System* – Dr. Joe Ballenger (Department of Management, Marketing, and International Business)
- 4:50-5:00** **Destiny Russell, Joseph Mars, and Jarod Davidson** *Volatile Organic Compounds Emitted from Indoor Plants* – Dr. Sheryll B. Jerez (Division of Environmental Science)
- 5:00-5:10** **Valerie Douglas** *Weight-Based Stereotyping as a Moderator of the Relation between Weight Stigmatization Experiences and Eating Disorder-Related Pathology* – Dr. Sarah Savoy (Department of Psychology)
- 5:10-5:20** **Amy Ferguson, La Keisha Grace, Sarah Rowland, Geneva Castillo, and Julia Scott** *The Effect of Amber Nightlighting on Resident Satisfaction and Safety: A Pilot Study* – Dr. Mitzi Perritt (School of Human Sciences)
- 5:20-5:30** **Amelia Fultz** *The Madwoman of Chaillot* – Dr. Richard Jones (School of Theatre)
- 5:30-5:40** **Ervin J. Goodrum** *Can You Feel the Heat!* – Dr. Alyx Frantzen (Department of Chemistry and Biochemistry)

Twilight Ballroom

- 5:40-8:00** **Poster Presentations of Finalists**
 Refreshments served

University Finalists—Poster Presentation

Nelson Rusche College of Business

- **Felicia Beam, Chris Berezna, Federickia Washington, Quinton Lee, and Brad McKinney** *Recruiting Through Social Media* Department of Management, Marketing, and International Business – Dr. Charlotte A. Allen
- **Caty Beard, Bayley Birdwell, Chelsea Bogue, and Rachel Bostick** *A Study on Great Places to Work* Department of Business Communication and Legal Studies – Dr. Clive Muir
- **Ashlyn Brackin** *SEASU Nursing Majors Attitudes Toward the Health Care Reforms in the 2012 Presidential Election* Department of Management, Marketing, and International Business – Dr. Joe Ballenger
- **Jami Miller** *Professor Salaries at Stephen F. Austin State University* Department of Economics and Finance – Dr. Ryan Phelps
- **Kayla Morton, Bryan Wells, and Juan Duarte** *P.E.R.K (Pleasing Employees Requires Kindness)* Department of Business Communication and Legal Studies – Judith Biss
- **Theunis Oliphant** *Warfare versus Business: A Comparison of East Asian Principles and Strategies* Department of Management, Marketing, and International Business – Dr. Robert Culpepper

Arthur Temple College of Forestry and Agriculture

- **Tamara Bennett and Hollis Gregory** *Bark Texture as an Indicator of Tree Vigor in Three Bottomland Oak Species* Division of Forestry – Dr. Jeremy Stovall
- **Stefni Deaton** *Control of Chinese Tallow Tree (Triadica sebifera) in Patch Clearcuts with Forest Herbicides* Division of Forestry – Dr. Jeremy Stovall
- **Melissa Ferguson** *Analysis of Aluminum in Commercial Tea* Division of Environmental Science – Dr. Kenneth Farrish
- **Sierra Gibbons** *The Use of Rain Gardens and Rainwater Harvesting on Campus* Division of Forestry – Dr. Matthew McBroom
- **Maura Roberto, Mary DePrisco, Cynthia Fuentes, and Hannah Massey** *Possible Contamination of Banita Creek Due to Gasoline Truck Spill* Division of Environmental Science – Dr. Sheryll B. Jerez
- **Spence Simmons** *Influence of N Source and Rate on Growth and Leaf Nutrient Content of a Taxodium Clone* Division of Agriculture – Dr. David Creech
- **Neal Warden** *Alternative Weaning Strategies to Improve Calf Well-being and Performance* Division of Animal Science – Dr. Erin Brown
- **Jacob Waters** *Building a GIS Database for the Melrose Water Supply Corporation* Division of Forestry – Dr. I-Kuai Hung

University Finalists—Poster Presentation

College of Fine Arts

- **Daniel Baugh** *Burning House* School of Art – Candace Hicks
- **Travis A. Erxleben** *Week to Weeks: Learning to Work Professionally* School of Art – Lauren Selden
- **Emilie Gaultier** *An Explanation of Mannerisms* School of Art – Lauren Selden
- **Sarah Joblin** *The Madrigals of Gesualdo: Madness or Method* School of Music – Dr. Jamie Weaver
- **Christina Kramer** *Hildegard of Bingen: The Other Side of the Story* School of Music – Dr. Jamie Weaver
- **Samara Martinez** *Que Bonita Es Esta Vida* School of Music – Dr. Jamie Weaver
- **Akeila Thomas** *The Introduction of the Black Conductor* School of Music – Dr. Jamie Weaver
- **Corin Tyer** *Art & Design Florida* School of Art – Peter Andrew

James I. Perkins College of Education

- **Yansy Galdamez, Chakeithia Brown, and Alyssa Phillips** *Accommodating Students of Poverty in Middle Level Education* Department of Elementary Education – Dr. Erik Jon Byker
- **Michael Hayford** *The Citrus Tree: A Student's Quest for Entrepreneurship* School of Human Sciences – Todd Barrios
- **Julissa Lopez, Amy Brennan, Trevor Sparks, and Wilson McFarland** *Organization Outreach to the SEA Campus* School of Human Sciences – Dr. Mary Olle
- **Cinnamon McKey** *The Effectiveness of Guided Reading on Reading Achievement* Department of Elementary Education – Dr. Robin D. Johnson
- **Shirmyra Swaby** *"A Shade of Swaby" Fashion Startup Business Plan* School of Human Sciences – Dr. Rebecca Greer
- **Erin Thompson and Natalie Schaeffer** *Establishing the Learned Effect of Repeated Wingate Anaerobic Tests* Department of Kinesiology and Health Science – Dr. Eric Jones
- **Jillian Wilson** *The Impact of Small Group Instruction on the Reading Ability of Three First Grade Students* Department of Elementary Education – Dr. Robin D. Johnson
- **Shelby Young** *Induction of Apoptosis, Antiangiogenic, Antimetastatic and Antiestrogenic Properties of Resveratrol in Human Breast Cancer Cell Lines* School of Human Sciences – Dr. Darla O'Dwyer